



SEQUENCE LISTING

<110> Keietsu ABE et al.

<120> METHOD FOR THE PRODUCTION OF USEFUL PRODUCTS BY MEANS OF
DECOMPOSITION OF PLASTICS BY MICROORGANISMS

<130> 4600-0112PUS1

<140> US 10/532,423

<141> 2005-04-22

<150> PCT/JP03/11861

<151> 2003-09-17

<150> JP 2002-30884

<151> 2002-10-23

<150> JP 2002-371246

<151> 2002-12-24

<160> 46

<170> PatentIn version 3.1

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Leu Leu Ser Asn Leu Leu Gly Ala Gly Gln Gly Ser Gln Gly Leu Gly	

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tac	cta	atg	tcc	atc	gga	aat	gat	tac	tga								318
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35         40         45

acc ctc att ttc gct cga ggc tcc acc gaa atg ggc aac atg ggc act     192
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gtc atc gga ccc cct ctc tgc tcg tcg ctg aag agc aag ctc ggt gcc     240
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gac aag gtc gct tgc caa ggt gtg ggt ggc ttg tac aca gga gga ttg     288
Asp Lys Val Ala Cys Gln Gly Val Gly Gly Leu Tyr Thr Gly Gly Leu
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atg caa aat gct ctc cct cag aac acc gac ccc ggc gct atc tcc acc     336
Met Gln Asn Ala Leu Pro Gln Asn Thr Asp Pro Gly Ala Ile Ser Thr
100        105        110

gcg aag tcg ctc ttt gaa caa gcc agc acc aag tgc cct aac acc cag     384
Ala Lys Ser Leu Phe Glu Gln Ala Ser Thr Lys Cys Pro Asn Thr Gln
115        120        125

atc gtg gcc ggt gga tac agt caa ggt agt gcc gtc atc gac aac gcc     432
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145        150        155        160

ttc ttc ggc ttc act cgt aac ctc cag gac aag ggt cag atc ccc aac     528
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165        170        175

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 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer used in the cloning of hydrophobin-315

 <400> 26
 ctgcttcctt tgtcgacatg aaggt 25

 <210> 27
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer used in the cloning of hydrophobin-315

 <400> 27
 tcaatgtct agaagccctt ggc 23

 <210> 28
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer for the spore of pNG-gla- hydrophobin-315

<400> 28
ctgcttcctt tgtcgacatg aaggt 25

<210> 29
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the spore of pNG-gla- hydrophobin-315

<400> 29
gtagaatcac gaatgagacc tttgacgacc 30

<210> 30
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide based on PBS-degrading enzyme and
Aspergillus fumigatus

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is t, c, a, or g

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is t, c, a, or g

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is t or c

<220>
<221> misc_feature
<222> (12)..(12)
<223> n is a or g

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is t, c, a, or g

<220>
<221> misc_feature
<222> (18)..(18)
<223> n is t, c, a, or g

<400> 30
gtngcntgnc angngntn 18

<210> 31
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide based on PBS-degrading enzyme and
Aspergillus fumigatus

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is g or a

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is c, t, g, or a

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is c, t, g, or a

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is c, t, g, or a

<220>
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<222> (13)..(13)
<223> n is c, t, g, or a

<220>
<221> misc_feature
<222> (16)..(16)
<223> n is t, g, or a

<400> 31
ntanccnccn gcnacnat 18

<210> 32
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer for the PBS-degrading enzyme

<400> 32
tgcatggcg gatccggtg ac 22

<210> 33
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer for the PBS-degrading enzyme

 <400> 33
 gaccgatgg atcccgaaaa tttatcc 27

<210> 34
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer for the PBS-degrading enzyme analogue

 <400> 34
 ggcagcaggg gatcccatcg ctg 23

<210> 35
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer for the PBS-degrading enzyme analogue

 <400> 35
 cgtagccac actcgatcc taagctgac 29

<210> 36
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer for the PBS-degrading enzyme analogue

 <400> 36
 ggcggctgcg gatccagtag atatc 25

<210> 37
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer for the PBS-degrading enzyme analogue

<400> 37
cagttcaggg ggatcctata gagtcc 26

<210> 38
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Sequence at the N-end of a biodegradable plastic-binding protein

<400> 38

Asp Ala Ser Ala Val Leu Ala Asp Phe Asn Thr Leu Ser Thr
1 5 10

<210> 39
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthesized primer derived from sequences of *Aspergillus fumigatus* and *Aspergillus oryzae*

<400> 39
atgctcgcca agcacgtc 18

<210> 40
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthesized primer derived from sequences of *Aspergillus fumigatus* and *Aspergillus oryzae*

<400> 40
ggccttcttg tactcggc 18

<210> 41
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthesized primer derived from sequences of *Aspergillus fumigatus* and *Aspergillus oryzae*

<400> 41
gacgcaatct ccaccac 17

<210> 42
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthesized primer derived from sequences of *Aspergillus fumigatus* and *Aspergillus oryzae*

 <400> 42
 tcaaacgcat ccgcaatctg 20

 <210> 43
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer targeted to *Aspergillus oryzae*

 <400> 43
 cttgcattca agtcgacctg aacac 25

 <210> 44
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer targeted to *Aspergillus oryzae*

 <400> 44
 ctattgaact atgcttctag aaggcctaatt c 31

 <210> 45
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR primer used in the transformation of *Aspergillus oryzae*

 <400> 45
 cttgcattca agtcgacctg aacac 25

 <210> 46
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>

<223> PCR primer used in the transformation of *Aspergillus oryzae*

<400> 46

gtagaatcac gaatggagcc ttgacgacc

30